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|-----------|-----------|
| l5 and L6 | 17 |

09/998,664

5/21/03

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L7

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Search History

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| | | | |
|-----------|--|-------|-----------|
| <u>L7</u> | l5 and L6 | 17 | <u>L7</u> |
| <u>L6</u> | maize or corn or zea | 77056 | <u>L6</u> |
| <u>L5</u> | L4 or l3 | 24 | <u>L5</u> |
| <u>L4</u> | cross adj incompatib\$ | 7 | <u>L4</u> |
| <u>L3</u> | gametophyt\$ near2 (allel\$ or gene\$) | 17 | <u>L3</u> |
| <u>L2</u> | ga adj S | 323 | <u>L2</u> |
| <u>L1</u> | hoegemeyer.in. | 3 | <u>L1</u> |

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 3 of 3 returned.**☐ 1. Document ID: US 6043416 A

L1: Entry 1 of 3

File: USPT

Mar 28, 2000

US-PAT-NO: 6043416

DOCUMENT-IDENTIFIER: US 6043416 A

TITLE: Inbred corn line HX740

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|
| Draw Desc | Image | | | | | | | | | | |

☐ 2. Document ID: US 6040507 A

L1: Entry 2 of 3

File: USPT

Mar 21, 2000

US-PAT-NO: 6040507

DOCUMENT-IDENTIFIER: US 6040507 A

TITLE: Inbred corn line HX622

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|
| Draw Desc | Image | | | | | | | | | | |

☐ 3. Document ID: US 6040506 A

L1: Entry 3 of 3

File: USPT

Mar 21, 2000

US-PAT-NO: 6040506

DOCUMENT-IDENTIFIER: US 6040506 A

TITLE: Inbred corn line HX621

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC |
|-----------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|------|
| Draw Desc | Image | | | | | | | | | |

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=> file ca

=> s hoegemeyer, t?/au

L1 0 HOEGEMEYER, T?/AU

=> file biosis

=> s l1

L2 6 HOEGEMEYER, T?/AU

=> d l2 1-6 ti py

=> d l2 1-6

L2 ANSWER 1 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 2000:429023 BIOSIS

DN PREV200000429023

TI Inbred corn line HX740.

AU ***Hoegemeyer, Thomas***

ASSIGNEE: Hoegemeyer Hybrid

PI US 6043416 March 28, 2000

SO Official Gazette of the United States Patent and Trademark Office Patents,
(Mar. 28, 2000) Vol. 1232, No. 4, pp. No pagination. e-file.

ISSN: 0098-1133.

DT Patent

LA English

printed

L2 ANSWER 2 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 2000:416218 BIOSIS

DN PREV200000416218

TI Inbred corn line HX621.

AU ***Hoegemeyer, Thomas (1)***

CS (1) Hooper, NE USA

ASSIGNEE: Hoegemeyer Hybrid, Hooper, NE, USA

PI US 6040506 March 21, 2000

SO Official Gazette of the United States Patent and Trademark Office Patents,
(Mar. 21, 2000) Vol. 1232, No. 3, pp. No pagination. e-file.

ISSN: 0098-1133.

DT Patent

LA English

printed

L2 ANSWER 3 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 2000:416208 BIOSIS

DN PREV200000416208

TI Inbred corn line HX622.

AU ***Hoegemeyer, Thomas***

ASSIGNEE: Hoegemeyer Hybrid

PI US 6040507 March 21, 2000

SO Official Gazette of the United States Patent and Trademark Office Patents,
(Mar. 21, 2000) Vol. 1232, No. 3, pp. No pagination. e-file.

ISSN: 0098-1133.

DT Patent

LA English

printed

L2 ANSWER 4 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1997:432773 BIOSIS

DN PREV199799731976

TI Registration of 42 maize parental lines: N501 to N521, N523 to N526, N528
to N530, and N532 to N545.

AU Johnson, Blaine E. (1); Posch, Jeffrey S.; Gardner, Charles O.;

Hoegemeyer, Thomas C.

CS (1) Dep. Agronomy, Univ. Nebraska, Lincoln, NE 68583 USA

ord 5/21 DX

=> file ca

=> s (mo511W or mo512W)/ab,bi

L1 0 (MO511W OR MO512W)/AB,BI

=> file biosis

=> s l1

L2 0 (MO511W OR MO512W)/AB,BI

=> file agricola

=> s l1

L3 0 (MO511W OR MO512W)/AB,BI

=> file ca

=> s (mo511 and popcorn?)/ab,bi

L4 0 (MO511 AND POPCORN?)/AB,BI

=> file biosis

=> s l4

L5 0 (MO511 AND POPCORN?)/AB,BI

=> file agricola

=> s l4

L6 0 (MO511 AND POPCORN?)/AB,BI

=> file ca

=> s (mo512 and popcorn?)/ab,bi

L7 0 (MO512 AND POPCORN?)/AB,BI

=> file biosis

=> s l7

L8 0 (MO512 AND POPCORN?)/AB,BI

=> file agricola

=> s l7

L9 0 (MO512 AND POPCORN?)/AB,BI

=> log y

STN INTERNATIONAL LOGOFF AT 20:32:34 ON 10 JUN 2003

09/998,664

CAT
Biosis
Agricola

6/10/03

SO Crop Science, (1997) Vol. 37, No. 4, pp. 1404-1405.
ISSN: 0011-183X.

DT Note; Article

LA English

L2 ANSWER 5 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1988:19592 BIOSIS

DN BR34:8102

TI RELATION OF CORN GRAIN YIELD TO FORAGE QUALITY.

AU ROTH L D; KLOPFENSTEIN T; ***HOEGEMEYER T*** ; NIELSEN M K; BARTLE S J

CS UNIV. NEBR., LINCOLN.

SO 79TH ANNUAL MEETING OF THE AMERICAN SOCIETY OF ANIMAL SCIENCE (MIDWESTERN SECTION), DES MOINES, IOWA, USA, MARCH 23-25, 1987. J ANIM SCI. (1987) 65 (SUPPL 1), 143-144.

CODEN: JANSAG. ISSN: 0021-8812.

DT Conference

FS BR; OLD

LA English

L2 ANSWER 6 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1976:170090 BIOSIS

DN BA62:90

TI SELECTION AMONG AND WITHIN FULL SIB FAMILIES TO DEVELOP SINGLE CROSSES OF MAIZE.

AU ***HOEGEMEYER T C*** ; HALLAUER A R

SO CROP SCI, (1976) 16 (1), 76-81.

CODEN: CRPSAY. ISSN: 0011-183X.

FS BA; OLD

LA Unavailable

✓ and
5/21

DF

✓ and

5/21

DF

~~CONFIDENTIAL~~

CAS
Phiosis

=> s (maize or corn or zea)/ab,bi

=> s 13 and 14

=> file biosis

=> s 15

L6 35 L3 AND L4

=> dup rem

L7 39 DUP REM L5 L6 (3 DUPLICATES REMOVED)

=> d 17 ti py 1-39

=> d 17 ab 3-5 7 8 14 15 17 20 27-31 33 35 37 38

=> d 17 14 15 17 20 27 28 29 30 31 33 35 37 38

L7 ANSWER 14 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1992:476723 BIOSIS

DN BA94:108098

TI THE RSS SYSTEM OF UNIDIRECTIONAL ***CROSS*** - ***INCOMPATIBILITY***
IN ***MAIZE*** 2. CYTOLOGY.
AU RASHID A; PETERSON P A
CS AGRONOMY DEP., IOWA STATE UNIVERSITY, AMES, IOWA 50011.
SO GENOME, (1992) 35 (4), 560-564.
CODEN: GENOE3. ISSN: 0831-2796.
FS BA; OLD
LA English

L7 ANSWER 15 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1992:303939 BIOSIS
DN BA94:17089

TI THE RSS SYSTEM OF UNIDIRECTIONAL ***CROSS*** - ***INCOMPATIBILITY***
IN ***MAIZE*** I. GENETICS.
AU RASHID A; PETERSON P A
CS AGRON. DEP., IOWA STATE UNIV., AMES, IOWA 50011.
SO J HERED, (1992) 83 (2), 130-134.
CODEN: JOHEA8. ISSN: 0022-1503.
FS BA; OLD
LA English

L7 ANSWER 27 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1983:327436 BIOSIS
DN BA76:84928
TI NONRECIPROCAL PARTIAL ***CROSS*** ***INCOMPATIBILITY*** IN
MAIZE ***ZEA*** -MAYS.

AU SUKHAPINDA K; PETERSON P E
CS DIV. FIELD CROPS, DEP. AGRICULTURE, BANGKHEN, BANGKOK 9, THAILAND.
SO CAN J GENET CYTOL, (1983) 25 (3), 270-277.
CODEN: CNJGA8. ISSN: 0008-4093.
FS BA; OLD
LA English

L7 ANSWER 28 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1983:25041 BIOSIS
DN BR24:25041
TI GENETIC ANALYSIS OF ***CROSS*** ***INCOMPATIBILITY*** IN
MAIZE .

AU PODOL'SKAYA A P
CS N. I. VAVILOV ALL-UNION INST. PLANT INDUSTRY, LENINGRAD.
SO Sov. Genet. (Engl. Transl.), (1981 (1982)) 17 (10), 1197-1202.
CODEN: SOGEBZ. ISSN: 0038-5409.
FS BR; OLD
LA English

L7 ANSWER 33 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1973:228474 BIOSIS
DN BA56:58439
TI STUDY ON THE DISTRIBUTION OF THE GENE ***GA*** - ***S*** IN LINES
AND VARIETIES OF POP ***CORN*** .
AU SEVOV A; KHRISTOV K; KHRISTOVA P; RUSKOVA K; MITEV S
SO GENET SEL, (1973) 6 (1), 19-26.
CODEN: GESKAC.
FS BA; OLD
LA Unavailable

WEST Search History

09/ 998,664

6/10/03

DATE: Tuesday, June 10, 2003

Set Name Query
side by sideHit Count Set Name
result set*DB=USPT; PLUR=YES; OP=OR*

L3 (mo511 or mo512) and (ga or gametophyte\$ or incompatib\$)
L2 (mo511 or mo512) and popcorn\$
L1 (mo511w or mo512w)

0 L3
0 L2
0 L1

END OF SEARCH HISTORY

09/998,664

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/45161

CLASSIFICATION OF SUBJECT MATTER

7 A01H5/10 A01H1/02

ing to International Patent Classification (IPC) or to both national classification and IPC

LDS SEARCHED

m documentation searched (classification system followed by classification symbols)

7 A01H

mentation searched other than minimum documentation to the extent that such documents are included in the fields searched

nomic data base consulted during the international search (name of data base and, where practical, search terms used)

, SIS, EPO-Internal, WPI Data, PAJ

DOCUMENTS CONSIDERED TO BE RELEVANT

| Priority | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|----------|---|-----------------------|
| | <p>NELSON OLIVER E: "The gametophyte factors of maize."</p> <p>THE MAIZE HANDBOOK.,</p> <p>1994, pages 496-503, XP008013956</p> <p>Springer-Verlag New York, Inc.; Springer-Verlag 175 Fifth Avenue, New York, New York 10010, USA; Heidelberger Platz 3, D-1000 Berlin, Germany</p> <p>page 499 -page 502</p> <p>---</p> <p>-/--</p> | 1-16 |

☐ Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

Special categories of cited documents:

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- * earlier document but published on or after the international filing date
- * document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- * document referring to an oral disclosure, use, exhibition or other means
- * document published prior to the international filing date but later than the priority date claimed

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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

19 February 2003

17/03/2003

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/45161

Inuaton) DOCUMENTS CONSIDERED TO BE RELEVANT

| y° Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|--|-----------------------|
| <p>KERMICLE J L ET AL: "CROSS-INCOMPATIBILITY BETWEEN MAIZE AND TEOSINTE" MAYDICA, ISTITUTO SPERIMENTALE PER LA CEREALICOLTURA, BERGAMO, IT, vol. 35, no. 4, 1990, pages 399-408, XP001031166 ISSN: 0025-6153 Fig. 1; Table 2</p> <p style="text-align: right;">✓ and 5/21 DFF</p> | <p>1-16</p> |
| <p>SEVOV A ET AL: "USE OF THE GA-S GENE AS A GENETIC BARRIER OF NONCROSSABILITY BETWEEN NORMAL AND HIGH LYSINE MAIZE" GENETIKA I SELEKTSIYA, vol. 12, no. 1, 1979, pages 21-25, XP002231718 ISSN: 0016-6766 the whole document</p> <p style="text-align: right;">and ✓ 5/21 DFF</p> | <p>1-16</p> |
| <p>PODOL'SKAYA A P: "INTRODUCTION OF GAMETOPHYTE GENE GA1 INTO THE GENOTYPE OF HIGH-LYSINE MAIZE" GENETIKA, vol. 24, no. 8, 1988, pages 1427-1431, XP008013884 ISSN: 0016-6758 the whole document</p> <p style="text-align: right;">and ✓ 5/21 DFF</p> | <p>1-16</p> |
| <p>SHMARAEV ET AL: "Hybridization of maize with teosinte" CAB, XP002181801 the whole document</p> | <p>12-14</p> |
| <p>DATABASE MAIZE DB - INTERNET 'Online! 1998 NORTH CAROLINA AGRIC. RES. SERV. : "MaizeDB is a public Internet gateway - Notice of Release of NC344, NC346, NC348, NC350, NC352, and NC354 Maize Breeding Lines" retrieved from HTTP://WWW.AGRON.MISSOURI.EDU/CGI-BIN/SYBG W_MDB/MDB3/REFERENCE/248185 XP002231720</p> | |
| <p>US 6 040 507 A (HOEGEMEYER THOMAS) 21 March 2000 (2000-03-21) the whole document</p> | |
| <p>US 5 491 294 A (MILLER RICHARD J) 13 February 1996 (1996-02-13) the whole document</p> | |

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/45161

(Inuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|-----------------------|
| <p>US 5 304 717 A (MILLER RICHARD J) 19 April 1994 (1994-04-19) the whole document</p> <p>-----</p> | |